What is claimed is:

1. A method of startup for an optical drive with an auto-balance system, comprising the steps of:

providing an optical disk and loading the optical disk into the optical drive with the auto-balance system; and

performing a startup procedure for the optical drive, the startup procedure comprising a servo activating procedure, a system parameter adjustment procedure, and a rotation speed control procedure for controlling the rotation speed of a spindle motor of the optical drive;

wherein the system parameter adjustment procedure and the rotation speed control procedure are performed alternately.

2. The method of startup for an optical drive with an auto-balance system according to claim 1, wherein the servo activating procedure further comprises:

a rotating procedure of the spindle motor by a spindle server for activating closed-loop control of the spindle motor;

a focusing procedure of a focus point of the optical drive at a recording surface of the optical disk along a focusing direction by a focus server for activating closed-loop focus control of the focus point; and

a tracking procedure of the focus point at a tracking position of the optical disk along a

tracking direction by a track server for activating closed-loop track control of the focus point.

3. The method of startup for an optical drive with an auto-balance system according to claim 1, wherein the system parameter adjustment procedure is comprised of an optical signal adjustment procedure and an electric signal adjustment procedure for the optical disk.

4. The method of startup for an optical drive with an auto-balance system according to claim 1, whereat the rotation speed control procedure is performed cyclically when the system parameter adjustment procedure is performed with a cycle time of ΔT.

5. The method of startup for an optical drive with an auto-balance system according to claim 4, whereat the rotation speed control procedure is performed for maintaining the rotation speed of the spindle motor according to a corresponding portion of a spindle motor RPM profile.

6. The method of startup for an optical drive with an auto-balance system according to claim 4, wherein an interrupt subroutine is performed cyclically with the cycle time of ΔT to perform the rotation speed control procedure.

7. A method of startup for an optical drive with an auto-balance system, comprising the steps of:

providing an optical disk and loading the optical disk into the optical drive with the auto-balance system; and

performing a startup procedure for the optical drive, the startup procedure comprising a servo activating procedure, and a system parameter adjustment procedure;

wherein a rotation speed control procedure for controlling a rotation speed of a spindle motor of the optical drive is performed cyclically when the system parameter adjustment procedure is performed.

8. The method of startup for an optical drive with an auto-balance system according to claim 7, wherein the servo activating procedure further comprises:

a rotating procedure of the spindle motor by a spindle server for activating closed-loop control of the spindle motor;

a focusing procedure of a focus point of the optical drive at a recording surface of the optical disk along a focusing direction by a focus server for activating closed-loop focus control of the focus point; and

a tracking procedure of the focus point at a tracking position of the optical disk along a tracking direction by a track server for activating closed-loop track control of the focus point.

9. The method of startup for an optical drive with an auto-balance system according to claim 7, wherein the system parameter adjustment procedure is comprised of an optical signal adjustment procedure and an electric signal adjustment procedure for the optical disk.

10. The method of startup for an optical drive with an auto-balance system according to claim 7, wherein an interrupt subroutine is performed cyclically to perform the rotation speed control procedure.

11. The method of startup for an optical drive with an auto-balance system according to claim 10, wherein the interrupt subroutine is performed for maintaining the rotation speed of the spindle motor according to a corresponding portion of a spindle motor RPM profile.

12. The method of startup for an optical drive with an auto-balance system according to claim 7, wherein the servo activating procedure and the system parameter adjustment procedure are performed by a main program.